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(54) Charge regulator for electronic device and associated method

(57) An electronic device, such as a radiotelephone, is connectable to a variable-level power source (106). The electronic device includes a rechargeable power source (188) which is repowered responsive to application of operative power generated by the variable-level power source (106). The electronic device provides a constant charge current regulator (168) for converting operative power of a constant voltage into operative power of a constant current to be applied to the rechargeable power source (188) to recharge the rechargeable power source (188). The constant charge current regulator (168) is made of a series connected diode (176) and resistor pair (172). According to a further aspect of the invention, when the rechargeable power source becomes fully recharged, application of the operative power can be reduced by switching (206).

